REC'D 27	APR 2004
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## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FP18654	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416).			
International Application No.	International Filing Da (day/month/year)	<del></del>			
PCT/AU2003/001390	20 October 2003	18 October 2002			
International Patent Classification (IPC) or 1	national classification ar				
Int. Cl. <sup>7</sup> B09B 3/00		<u>.</u>			
Applicant	<del> </del>	· .			
REGAIN TECHNOLOGIES PTY	LTD et al	•			
	•	·			
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.					
2. This REPORT consists of a total of 3	sheets, including this co	over sheet.			
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of a total of	f sheet(s).				
3. This report contains indications relating	to the following items:				
I X Basis of the report					
II Priority					
III Non-establishment of opin	nion with regard to nove	ty, inventive step and industrial applicability			
IV Lack of unity of invention	-				
V X Reasoned statement under	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
VI Certain documents cited	and the same services				
VII Certain defects in the inter	national application				
VIII Certain observations on the					
Date of submission of the demand		Date of completion of the report			
29 March 2004		13 April 2004			
Name and mailing address of the IPEA/AU		Authorized Officer			
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA					
E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929	1	onathan Lewis			
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International application No. PCT/AU2003/001390

I.		Basis of the report		
1.	1. With regard to the elements of the international application:*			
	X	X the international application as originally filed.	•	
		the description, pages, as originally filed,	·	
		pages, filed with the demand,		
	•	pages, received on with the letter of	•	
		the claims, pages, as originally filed,		
		pages , as amended (together with any statement) und	er Article 10	
		pages, filed with the demand,	·	
		pages, received on with the letter of		
		the drawings, pages, as originally filed,		
		pages , filed with the demand,		
	_	pages, received on with the letter of		
	Ш	the sequence listing part of the description:		
		pages , as originally filed		
		pages , filed with the demand		
		pages, received on with the letter of		
2.		With regard to the language, all the elements marked above were available or fur thich the international application was filed, unless otherwise indicated under the hese elements were available or furnished to this Authority in the following lang the language of a translation furnished for the purposes of international sea	s item. uage which is:	
	$\Box$	the language of publication of the international application (under Rule 48.	con (under Rule 23.1(b)).	
	Ш	the language of the translation furnished for the purposes of international parad/or 55.3).	eliminary examination (under Rules 55.2	
3.	With pre	With regard to any nucleotide and/or amino acid sequence disclosed in the interpreliminary examination was carried out on the basis of the sequence listing:  ———————————————————————————————————	national application, the international	
		filed together with the international application in computer readable form.		
	同	furnished subsequently to this Authority in written form.	•	
		furnished subsequently to this Authority in computer readable form.	•	
		The statement that the subsequently furnished written sequence listing does international application as filed has been furnished.	not go beyond the disclosure in the	
		The statement that the information recorded in computer readable form is id been furnished	entical to the written sequence listing has	
ł.		The amendments have resulted in the cancellation of:		
		the description, pages		
		the claims, Nos.		
		the drawings, sheets/fig.	•	
		This report has been established as if (some of) the amendments had not bee go beyond the disclosure as filed, as indicated in the Supplemental Box (Rul	n made, since they have been considered to e 70.2(c)).**	
	Repl	Replacement sheets which have been furnished to the receiving Office in response to an report as "originally filed" and are not annexed to this report since they do not contain to	locald add and an in the state of the state	
*	Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report			



International application No. PCT/AU2003/001390

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement		
Novelty (N)	Claims 1-10	YES
•	Claims	NO
Inventive step (IS)	Claims 1-10	YES
* *	Claims	NO
Industrial applicability (IA)	Claims 1-10	YES
	Claims	NO

2. Citations and explanations (Rule 70.7)

D1: WO 1992/012268

D2: GB 2198722

D3: WO 1992/020469

1. Independent Claim 1 is discloses a method of treating a spent potliner by crushing and classifying the potliner, heating the potliner in a furnace at greater than 450°C, then mixing the residue with water to cure the residue.

D1 discloses a process for recovering aluminium and fluoride values from spent potliners. This document discloses heating spent potliners and subjecting the residue to a leaching step in order to produce a leach liquor from which an aluminium fluoride product may be precipitated. As a result, Claim 1 is novel in light of D1.

D2 discloses a process for recovering fluoride values from spent potliners, buy heating the potliners to produce an ash which is treated by a sulpholysis reaction to produce a gaseous fluoride-rich product. As a result, Claim 1 is novel in light of D2.

D3 discloses a process for the treatment of spent potliners whereby the liners are crushed and combusted, before mixing the ash with chemically reactive compounds and heating to produce a heat treated ceramic material. As a result, Claim 1 is novel in light of D3.

Claims 2-10 are also novel in light of the disclosure of D1-D3.

The invention defined in the present claims involves an inventive step over the disclosure of the prior art.

2. The present claims are directed towards a method of treating a spent potliner and therefore have industrial applicability.